Release notes for ENDF/B Development n-057_La_139 evaluation



April 26, 2017

- checkr Warnings:
 - 1. A previous error halted parsing of the current section $MAT=5728,\ MF=1,\ MT=451\ (1)$: Parsing stopped

ERROR(S) FOUND IN MAT=5728, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 168 TO 172

- checkr Errors:
 - 1. A variable is outside the allowed ENDF range $MAT=5728,\ MF=1,\ MT=451\ (0)$: Variable range

ERROR(S) FOUND IN MAT=5728, MF= 1, MT=451
MOD = 1 OUT OF RANGE 0 - 0 RECORD NUMBER 168

2. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5728, MF=33, MT=4 (0): Directory (b)

ERROR(S) FOUND IN MAT=5728, MF=33, MT= 4 SECTION 33/ 4 NOT IN DIRECTORY

RECORD NUMBER 4697

3. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5728, MF=33, MT=16 (0): Directory (b)

ERROR(S) FOUND IN MAT=5728, MF=33, MT= 16 SECTION 33/ 16 NOT IN DIRECTORY

RECORD NUMBER 4756

4. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=5728,\ MF=33,\ MT=102\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=5728, MF=33, MT=102 SECTION 33/102 NOT IN DIRECTORY

RECORD NUMBER 4766

- psyche Warnings:
 - 1. Gamma width not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ISOTOPE MASS = 139. L=0 / AT RESONANCE ENERGY 8.03520E+03 EV. THE GAMMA WIDTH 6.55111E-01 DEVIATES TOO MUCH FROM THE AVERAGE 6.10036E-02 (0): Gamma width

FILE 2 SECTION 151

ISOTOPE MASS = 139. L = 0

AT RESONANCE ENERGY 8.03520E+03 EV. THE GAMMA WIDTH 6.55111E-01 DEVIATES TOO MUCH FROM THE AV

2. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ISOTOPE MASS = 139. L = 1 / STRENGTH FUNCTION IS 2.69609E-05 / STRENGTH FUNCTION 2.69609E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

SECTION 151

ISOTOPE MASS = 139. L = 1

STRENGTH FUNCTION IS 2.69609E-05

STRENGTH FUNCTION 2.69609E-05

... [1 more lines]

3. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 / STRENGTH FUNCTION 3.99115E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 STRENGTH FUNCTION 3.99115E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

4. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 / STRENGTH FUNCTION 4.00008E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 STRENGTH FUNCTION 4.00008E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

5. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 / STRENGTH FUNCTION 3.99997E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 STRENGTH FUNCTION 3.99997E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

6. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 / STRENGTH FUNCTION 4.00000E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 STRENGTH FUNCTION 4.00000E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

7. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 / STRENGTH FUNCTION 3.99995E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 STRENGTH FUNCTION 3.99995E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

8. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 / STRENGTH FUNCTION 4.00002E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 STRENGTH FUNCTION 4.00002E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

9. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 / STRENGTH FUNCTION 3.99998E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 STRENGTH FUNCTION 3.99998E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

10. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 / STRENGTH FUNCTION 4.00005E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 STRENGTH FUNCTION 4.00005E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

11. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 / STRENGTH FUNCTION 3.99993E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99115E-05 STRENGTH FUNCTION 3.99993E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

12. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99126E-05 / STRENGTH FUNCTION 3.99126E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99126E-05 STRENGTH FUNCTION 3.99126E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

13. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99126E-05 / STRENGTH FUNCTION 4.00000E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99126E-05 STRENGTH FUNCTION 4.00000E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

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14. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99126E-05 / STRENGTH FUNCTION 3.99990E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99126E-05 STRENGTH FUNCTION 3.99990E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

15. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99126E-05 / STRENGTH FUNCTION 3.99997E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99126E-05 STRENGTH FUNCTION 3.99997E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

... [2 more lines]

16. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99126E-05 / STRENGTH FUNCTION 4.00010E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99126E-05 STRENGTH FUNCTION 4.00010E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

17. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99126E-05 / STRENGTH FUNCTION 4.00006E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99126E-05 STRENGTH FUNCTION 4.00006E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

18. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 4.00005E-05 / STRENGTH FUNCTION 4.00005E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 4.00005E-05 STRENGTH FUNCTION 4.00005E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

... [1 more lines]

19. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 4.00005E-05 / STRENGTH FUNCTION 4.00000E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 4.00005E-05 STRENGTH FUNCTION 4.00000E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

... [3 more lines]

20. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 4.00005E-05 / STRENGTH FUNCTION 3.99996E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 4.00005E-05 STRENGTH FUNCTION 3.99996E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

21. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 4.00005E-05 / STRENGTH FUNCTION 3.99992E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 4.00005E-05 STRENGTH FUNCTION 3.99992E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

22. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 4.00005E-05 / STRENGTH FUNCTION 4.00008E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 4.00005E-05 STRENGTH FUNCTION 4.00008E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

23. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99989E-05 / STRENGTH FUNCTION 3.99989E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99989E-05 STRENGTH FUNCTION 3.99989E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

... [1 more lines]

24. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99989E-05 / STRENGTH FUNCTION 4.00000E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99989E-05 STRENGTH FUNCTION 4.00000E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

25. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99989E-05 / STRENGTH FUNCTION 4.00016E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99989E-05 STRENGTH FUNCTION 4.00016E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

26. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99989E-05 / STRENGTH FUNCTION 4.00005E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99989E-05 STRENGTH FUNCTION 4.00005E-05

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

... [2 more lines]

27. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99989E-05 / STRENGTH FUNCTION 3.99990E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

FILE 2
SECTION 151
ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99989E-05
STRENGTH FUNCTION 3.99990E-05

28. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99989E-05 / STRENGTH FUNCTION 3.99985E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.

LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

FILE 2
 SECTION 151
 ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.99989E-05
 STRENGTH FUNCTION 3.99985E-05
 LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

• recent Warnings:

1. Statistical weight of certain L values were incorrect 0: RRR goof (a)

• fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination resonances / resolved (Error # 1): missingResonanceChannel

```
WARNING: Missing a channel with angular momenta combination L=0, J=2.0 and S=2.0 for "capture" WARNING: Missing a channel with angular momenta combination L=1, J=2.0 and S=2.0 for "capture" WARNING: Missing a channel with angular momenta combination L=1, J=3.0 and S=2.0 for "capture" WARNING: Missing a channel with angular momenta combination L=1, J=3.0 and S=3.0 for "capture" ... plus 1 more instances of this message
```

2. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 0 (n + La139): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

3. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 0 (n + La139): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

4. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes. Section 1 ((z,n)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 2 (n[multiplicity:'2'] + La138): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 3 (La140 + gamma): / Form 'eval': / Component 0 (Error # 0): Condition

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

7. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 3 (La140 + gamma): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

• fudge-4.0 Errors:

1. The spin statistical weights are off, indicating missing channels resonances / resolved / MultiLevel_BreitWigner (Error # 0): badSpinStatisticalWeights

WARNING: The spin statical weights for L=1 sums to 2.0, but should sum to 3.0. You have too few channels for re

2. Calculated and tabulated Q values disagree. reaction label 13: n[multiplicity:'2'] + La138 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -11672830.59147644 eV vs -8.7782e6 eV!

3. Energy range of data set does not match cross section range reaction label 13: n[multiplicity:'2'] + La138 / Product: n / Distribution: / uncorrelated - angular - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (8841902.0 -> 20000000.0) vs (8841900.0 -> 20000000.0)

4. Energy range of data set does not match cross section range reaction label 13: n[multiplicity:'2'] + La138 / Product: n / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (8841902.0 -> 20000000.0) vs (8841900.0 -> 20000000.0)

5. Calculated and tabulated Q values disagree.

reaction label 14: n[multiplicity:'3'] + La137 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -19168175.44387817 eV vs -1.625e7 eV!

6. Calculated and tabulated Q values disagree. reaction label 15: n + H1 + Ba138 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9153533.523742676 eV vs -6.2549e6 eV!

7. Energy range of data set does not match cross section range reaction label 15: n + H1 + Ba138 / Product: n / Distribution: / uncorrelated - angular - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6300302.0 -> 20000000.0) vs (6300300.0 -> 20000000.0)

8. Energy range of data set does not match cross section range reaction label 15: n + H1 + Ba138 / Product: n / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6300302.0 -> 20000000.0) vs (6300300.0 -> 20000000.0)

9. Calculated and tabulated Q values disagree. reaction label 16: La140 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 2266154.828063965 eV vs 5.1603e6 eV!

10. Calculated and tabulated Q values disagree. reaction label 17: n + He4 + Cs135 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4969255.818756104 eV vs -2.001e6 eV!

11. Calculated and tabulated Q values disagree. reaction label 18: H1 + Ba139-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4430102.574539185 eV vs -1.5315e6 eV!

12. Calculated and tabulated Q values disagree. reaction label 19: H2 + Ba138-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6928967.422805786 eV vs -4.0304e6 eV!

13. Calculated and tabulated Q values disagree. reaction label 20: $H3 + Ba137_s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9283455.388519287 eV vs -6.3847e6 eV!

14. Calculated and tabulated Q values disagree. reaction label 21: He3 + Cs137-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -10440492.52693176 eV vs -7.5416e6 eV!

15. Calculated and tabulated Q values disagree. reaction label 22: He4 + Cs136_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 1858919.463409424 eV vs 4.7623e6 eV!

• njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

- ---message from conver---cannot do complete particle production for mt= 16 only mf4/mf5 provided
- 2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

 groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)
 - ---message from conver---cannot do complete particle production for mt= 17 only mf4/mf5 provided
- 3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

 group-...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)
 - ---message from conver---cannot do complete particle production for mt= 22 only mf4/mf5 provided
- 4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

 groupr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)
 - ---message from conver---cannot do complete particle production for mt= 28 only mf4/mf5 provided
- 5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

 groupr...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)
 - ---message from conver---cannot do complete particle production for mt= 91 only mf4/mf5 provided